

Application No. 09/924,977
Amendment in Reply to Advisory Action of May 14, 2004

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks/Arguments begin on page 6 of this paper.

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings of claims in the application.

Listings of Claims:

1. (Currently Amended) A vehicle-mounted input unit provided with a manual manipulator, position sensors for supplying position signals corresponding to the direction and quantity in which the manual manipulator is driven, actuators for providing an external force to the manual manipulator, and a control section for controlling the actuators, wherein the control section computes ~~the~~an initial width of the movable range of the manual manipulator from its current position to an end of its possible motion according to changes in position signals supplied from the position sensors, and controls the output to the actuators according to the computed initial width of the movable range.

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Currently Amended) A vehicle-mounted input unit provided with a manual manipulator, vehicle-mounted electric devices operated by the manual manipulator, position sensors for supplying position signals corresponding to the direction and quantity in which a pertinent vehicle-mounted electric device is driven, actuators for providing an external force to the manual manipulator, and a control section for controlling the vehicle-mounted electric devices and the actuators, wherein the control section computes ~~the~~an initial width of the movable range of the vehicle-mounted electric device from its current position to an end of its possible motion according to changes in position signals supplied from the position sensors, and controls the output to the actuators according to the computed initial width of the movable range.

6. (Currently Amended) The vehicle-mounted input unit according to Claim [1] 11, wherein a plurality of tables listing correlations between changes in the position signals and the output of the actuators are stored in the control section, and a switching means for the tables is provided on or in the vicinity of the manual manipulator.

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Currently Amended) The vehicle-mounted input unit according to Claim [5] 12, wherein a plurality of tables listing correlations between changes in the position signals and the output of the actuators are stored in the control section, and a switching means for the tables is provided on or in the vicinity of the manual manipulator.

11. (New) The vehicle-mounted input unit according to Claim 1, wherein the control section controls the output to the actuator to weaken a feel of resistance when the movable range is wide, and to emphasize the feel of resistance when the movable range is narrow.

12. (New) The vehicle-mounted input unit according to Claim 5, wherein the control section controls the output to the actuator to weaken a feel of resistance is weakened when the movable range is wide, and to emphasize the feel of resistance when the movable range is narrow.

13. (New) The vehicle-mounted input unit according to Claim 11, wherein an impactive resistance is felt on the manual manipulator when substantially the end of the movable range is reached.

14. (New) The vehicle-mounted input unit according to Claim 12, wherein

Application No. 09/924,977

Amendment in Reply to Advisory Action of May 14, 2004

an impactive resistance is felt on the manual manipulator when substantially the end of the movable range is reached